STIC Biotechnology Systems Branch

RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number:

Source:

Date Processed by STIC:

on Serial Number: 10/642, 242/8

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

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- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE <u>CHECKER</u> <u>VERSION 4.4.0 PROGRAM</u>, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

- 1. EFS-Bio (http://www.uspto.gov/ebc/efs/downloads/documents.htm, EFS Submission User Manual ePAVE)
- 2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
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 U.S. Patent and Trademark Office, Mail Stop Sequence, Customer Window, Randolph Building, 401 Dulany Street,
 Alexandria, VA 22314

Revised 01/10/06



IFW16

RAW SEQUENCE LISTING DATE: 02/13/2007
PATENT APPLICATION: US/10/642,272B TIME: 10:09:49

Input Set : F:\Sequence Listing (Substitute) (58777.12).txt

Output Set: N:\CRF4\02132007\J642272B.raw

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3 <110> APPLICANT: Hattori, Fumiyuki.
         Suqimura, Keijiro
         Furuya, Mayumi
 7 <120> TITLE OF INVENTION: Therapeutic Methods and Agents for Diseases Associated with
         Decreaed Expression of AOP-1 Gene or AOP-1
10 <130> FILE REFERENCE: 58777.000012
12 <140> CURRENT APPLICATION NUMBER: 10/642,272B
                                                          Does Not Comply
Corrected Diskette Needed

CPS 6
13 <141> CURRENT FILING DATE: 2003-08-18
15 <150> PRIOR APPLICATION NUMBER: PCT/JP02/01358
16 <151> PRIOR FILING DATE: 2001-02-18
18 <150> PRIOR APPLICATION NUMBER: JP 41003/2001
19 <151> PRIOR FILING DATE: 2001-02-16
21 <160> NUMBER OF SEQ ID NOS: 32
23 <170> SOFTWARE: PatentIn version 3.3
25 <210> SEQ ID NO: 1
26 <211> LENGTH: 1542
27 <212> TYPE: DNA
28 <213> ORGANISM: Homo sapiens
30 <400> SEQUENCE: 1
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33 gecatteett ggggcattte tgccaetgca geceteagge etgetgcatg tggaaqaacg
                                                                          120
35 agettgacaa atttattgtg ttctggttcc agtcaagcaa aattattcag caccagttcc
                                                                          180
37 teatgecatg cacetgetgt cacecageat geacectatt ttaagggtae ageegttgte
                                                                          240
39 aatggagagt tcaaagacct aagccttgat gactttaagg ggaaatattt ggtgcttttc
                                                                         300
41 ttctatcctt tggatttcac ctttgtgtqt cctacaqaaa ttgttgcttt tagtgacaaa
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43 gctaacgaat ttcacgatgt gaactgtgaa gttgtcgcag tctcagtgga ttcccacttt
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45 agecatettg cetggataaa tacaccaaga aagaatggtg gtttgggeca catgaacate
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47 gcactcttgt cagacttaac taagcagatt tcccgagact acggtgtgct gttagaaggt
                                                                         540
49 tetggtettg cactaagagg tetetteata attgacecea atggagteat caageatttg
                                                                         600
51 agegteaacg ateteceagt gggeegaage gtggaagaaa eeeteegett ggtgaaggeg
                                                                         660
53 ttccagtatg tagaaacaca tggagaagtc tgcccagcga actggacacc ggattctcct
                                                                         720
                                                                         780
55 acgatcaagc caagtccagc tgcttccaaa gagtactttc agaaggtaaa tcagtagatc
57 acccatgtgt atctgcacct tctcaactga gagaagaacc acagttgaaa cctgctttta
                                                                         840
59 tcattttcaa gatggttatt tgtagaaggc aaggaaccaa ttatgcttgt attcataagt
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61 attactctaa atgttttgtt tttgtaattc tggctaggac cttttaaaca tggttagttg
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63 ctagtacagg aatcgtttat tggtaacatc ttggtggctg gctagctagt ttctacagaa
                                                                        1020
65 cataatttgc ctctatagaa ggctattctt agatcatgtc tcaatggaaa cactcttctt
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67 tettageett acttgaatet tgeetataat aaagtagage aacacacatt gaaagettet
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69 gatcaacqqt cctqaaattt tcatcttqaa tqtctttqta ttaaactqaa ttttctttta
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71 agctaacaaa gatcataatt ttcaatgatt agccgtgtaa ctcctgcaat gaatgtttat
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73 gtgattgaag caaatgtgaa tcgtattatt ttaaaaagtg gcagagtgac ttaactgatc
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75 atgcatgatc cctcatccct gaaattqaqt ttatqtaqtc attttactta ttttattcat
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77 tagctaactt tgtctatgta tatttctaga tattgattag tgtaatcgat tataaaggat
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Input Set : F:\Sequence Listing (Substitute) (58777.12).txt
Output Set: N:\CRF4\02132007\J642272B.raw

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84 <210> SEQ ID NO: 2 85 <211> LENGTH: 1433							
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87 <213> ORGANISM: Rattus norvegicus 89 <400> SEQUENCE: 2							
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	ctatcgtgg ctcttgcgtt					60 120	
	ctcggtggct cggcctgcga					180	
	geetgttget tetagaagaa					240	
	aagtttgcc tttagcacca					300	
	cattttaaa ggtactgctg					360	
	taaggggaaa tacttggtgc agaaattgtt gctttcagtg					420	
	tgcggtttct gtggattccc					480	
	tggtggtttg ggccacatga					540	
	agactacgga gtactgttgg					600	
	ccctaatggt gtcatcaagc					660	
	agaaccactc cgtttggtaa					720	
	acccaactgg acaccagagt					780	
	ctttgagaag gtccatcaat					840	
	catgccaaaa gagagcccca					900	
	caccatgctt gtgtttataa					960	
	gttaaaggtg gccagctcct	_		-		1020	
	attetetaca agtgettggt					1080	
	ttagcctgcc ctgaagcttg					1140	
	atgaagtage acatagegee					1200	
	agtgaaagct tctgatcaag					1260	
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141	<212> TYPE: DNA						
142	142 <213> ORGANISM: Mus sp.						
144	<400> SEQUENCE: 3						
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	cgggaaggtt gctctggtcc					120	
	ctgcctcaac agttcttagg					180	
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	ctgtcaccca gcacgcgccc					300	
	agctgagtct cgacgacttt					360	
	tcacatttgt gtgtcctaca					420	
	atgtaaactg tgaagtagtt					480	
	tcaacacc aagaaagaat					540	
	taactaagca gatatcccga					600	
	gaggtctctt cattattgac					660	
	cggtgggccg cagtgtggaa					720	
169	cccatggaga agtctgccca	gccaactgga	caccagagto	ccctacgate	aagccaagtc	780	

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Output Set: N:\CRF4\02132007\J642272B.raw

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171 caacagcttc caaagagtac tttgagaagg tccatcagta ggccatccta tgtctgcaat
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173 tacctgaagc ttttcaggcc aaaaaagagc cccagctgga atccttccaa tqccttqaaq
                                                                          900
175 attatttata gaatggcaaa acctcattat gtttgtgttt ataagtactg ctccacaggc
                                                                          960
177 tttgtaattc taagacaggt tcaggctctc taaaggtggc tagctgcttc catagctgcc
                                                                         1020
179 cttactaggg acttcttggt ggctaaccaa ttctccccga gtgctttgcc cccatttctt
                                                                         1080
181 ggatcatgtc cttagagggt aagcattett teeettagec tgeeetgaac ettggtetae
183 agtgaagtag cacatagtgc cagtacttgg tgaaatgaag tagcacatag caccagcact
                                                                         1200
185 taatggaage ttetgateaa ggteetaaaa ttteetettg aatttttgtg aattatgetg
                                                                         1260
187 aatttccctt ttttttttt taaacagtgt ccttgtgtgt tctgaggtat tgaagaggta
                                                                         1320
189 taatcatgaa ggactatgtc taatccataa gtcattttct tcaagagctg gatatataga
                                                                         1380
191 at
                                                                         1382
194 <210> SEQ ID NO: 4
195 <211> LENGTH: 256
196 <212> TYPE: PRT
197 <213> ORGANISM: Homo sapiens
199 <400> SEQUENCE: 4
201 Met Ala Ala Ala Val Gly Arg Leu Leu Arg Ala Ser Val Ala Arg His
202 1
205 Val Ser Ala Ile Pro Trp Gly Ile Ser Ala Thr Ala Ala Leu Arg Pro
                20 .
                                    25
209 Ala Ala Cys Gly Arg Thr Ser Leu Thr Asn Leu Leu Cys Ser Gly Ser
            35
213 Ser Gln Ala Lys Leu Phe Ser Thr Ser Ser Ser Cys His Ala Pro Ala
                            55
217 Val Thr Gln His Ala Pro Tyr Phe Lys Gly Thr Ala Val Val Asn Gly
                        70
                                             75
221 Glu Phe Lys Asp Leu Ser Leu Asp Asp Phe Lys Gly Lys Tyr Leu Val
                    85
                                         90
225 Leu Phe Phe Tyr Pro Leu Asp Phe Thr Phe Val Cys Pro Thr Glu Ile
                100
229 Val Ala Phe Ser Asp Lys Ala Asn Glu Phe His Asp Val Asn Cys Glu
                                120
233 Val Val Ala Val Ser Val Asp Ser His Phe Ser His Leu Ala Trp Ile
237 Asn Thr Pro Arg Lys Asn Gly Gly Leu Gly His Met Asn Ile Ala Leu
                        150
                                             155
241 Leu Ser Asp Leu Thr Lys Gln Ile Ser Arg Asp Tyr Gly Val Leu Leu
                                         170
245 Glu Gly Ser Gly Leu Ala Leu Arg Gly Leu Phe Ile Ile Asp Pro Asn
              . 180
                                    185
249 Gly Val Ile Lys His Leu Ser Val Asn Asp Leu Pro Val Gly Arg Ser
                                200
253 Val Glu Glu Thr Leu Arg Leu Val Lys Ala Phe Gln Tyr Val Glu Thr
        210
                            215
                                                 220
257 His Gly Glu Val Cys Pro Ala Asn Trp Thr Pro Asp Ser Pro Thr Ile
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                                             235
261 Lys Pro Ser Pro Ala Ala Ser Lys Glu Tyr Phe Gln Lys Val Asn Gln
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265 <210> SEQ ID NO: 5
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Input Set : F:\Sequence Listing (Substitute) (58777.12).txt

Output Set: N:\CRF4\02132007\J642272B.raw

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266 <211> LENGTH: 257
267 <212> TYPE: PRT
268 <213> ORGANISM: Rattus norvegicus
270 <400> SEQUENCE: 5
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273 1
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276 Ala Ser Thr Ile Phe Arg Ser Ile Ser Ala Ser Thr Val Leu Arg Pro
280 Val Ala Ser Arg Arg Thr Cys Leu Thr Asp Met Leu Trp Ser Ala Cys
                                40
284 Pro Gln Ala Lys Phe Ala Phe Ser Thr Ser Ser Phe His Thr Pro
                           55
288 Ala Val Thr Gln His Ala Pro His Phe Lys Gly Thr Ala Val Val Asn
                       70
                                            75
292 Gly Glu Phe Lys Glu Leu Ser Leu Asp Asp Phe Lys Gly Lys Tyr Leu
296 Val Leu Phe Phe Tyr Pro Leu Asp Phe Thr Phe Val Cys Pro Thr Glu
                                    105
300 Ile Val Ala Phe Ser Asp Lys Ala Asn Glu Phe His Asp Val Asn Cys
           115
                                120
304 Glu Val Val Ala Val Ser Val Asp Ser His Phe Ser His Leu Ala Trp
                           135
308 Ile Asn Thr Pro Arg Lys Asn Gly Gly Leu Gly His Met Asn Ile Thr
                       150
                                            155
312 Leu Leu Ser Asp Leu Thr Lys Gln Ile Ser Arg Asp Tyr Gly Val Leu
                    165
                                        170
316 Leu Glu Ser Ala Gly Ile Ala Leu Arg Gly Leu Phe Ile Ile Asp Pro
               180
                                    185
320 Asn Gly Val Ile Lys His Leu Ser Val Asn Asp Leu Pro Val Gly Arg
                                200
324 Ser Val Glu Glu Pro Leu Arg Leu Val Lys Ala Phe Gln Phe Val Glu
                           215
328 Thr His Gly Glu Val Cys Pro Pro Asn Trp Thr Pro Glu Ser Pro Thr
                        230
332 Ile Lys Pro Ser Pro Thr Ala Ser Lys Glu Tyr Phe Glu Lys Val His
333
                    245
336 Gln
340 <210> SEQ ID NO: 6
341 <211> LENGTH: 257
342 <212> TYPE: PRT
343 <213> ORGANISM: Mus sp.
345 <400> SEQUENCE: 6
347 Met Ala Ala Ala Gly Arg Leu Leu Trp Ser Ser Val Ala Arg His
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351 Ala Ser Ala Ile Ser Arg Ser Ile Ser Ala Ser Thr Val Leu Arg Pro
355 Val Ala Ser Arg Arg Thr Cys Leu Thr Asp Ile Leu Trp Ser Ala Ser
359 Ala Gln Gly Lys Ser Ala Phe Ser Thr Ser Ser Phe His Thr Pro
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Input Set : F:\Sequence Listing (Substitute) (58777.12).txt

Output Set: N:\CRF4\02132007\J642272B.raw

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360
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                            55
363 Ala Val Thr Gln His Ala Pro Tyr Phe Lys Gly Thr Ala Val Val Asn
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367 Gly Glu Phe Lys Glu Leu Ser Leu Asp Asp Phe Lys Gly Lys Tyr Leu
                                        90
371 Val Leu Phe Phe Tyr Pro Leu Asp Phe Thr Phe Val Cys Pro Thr Glu
                100
                                    105
375 Ile Val Ala Phe Ser Asp Lys Ala Asn Glu Phe His Asp Val Asn Cys
            115
                                120
379 Glu Val Val Ala Val Ser Val Asp Ser His Phe Ser His Leu Ala Trp
                            135
                                                140
383 Ile Asn Thr Pro Arg Lys Asn Gly Gly Leu Gly His Met Asn Ile Thr
384 145
                        150
                                            155
387 Leu Leu Ser Asp Ile Thr Lys Gln Ile Ser Arg Asp Tyr Gly Val Leu
391 Leu Glu Ser Ala Gly Ile Ala Leu Arg Gly Leu Phe Ile Ile Asp Pro
                180
                                    185
395 Asn Gly Val Val Lys His Leu Ser Val Asn Asp Leu Pro Val Gly Arg
            195
                                200
399 Ser Val Glu Glu Thr Leu Arg Leu Val Lys Ala Phe Gln Phe Val Glu
                            215
403 Thr His Gly Glu Val Cys Pro Ala Asn Trp Thr Pro Glu Ser Pro Thr
                        230
                                            235
407 Ile Lys Pro Ser Pro Thr Ala Ser Lys Glu Tyr Phe Glu Lys Val His
408
                    245
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411 Gln
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416 <211> LENGTH: 21
417 <212> TYPE: DNA
418 <213> ORGANISM: Artificial Sequence
420 <220> FEATURE:
421 <223> OTHER INFORMATION: Forward Primer
423 <400> SEQUENCE: 7
424 tgcagtttca gtggattccc a
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427 <210> SEQ ID NO: 8
428 <211> LENGTH: 18
429 <212> TYPE: DNA
430 <213> ORGANISM: Artificial Sequence
432 <220> FEATURE:
433 <223> OTHER INFORMATION: Reverse Primer
435 <400> SEQUENCE: 8
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439 <210> SEQ ID NO: 9
440 <211> LENGTH: 28
441 <212> TYPE: DNA
442 <213> ORGANISM: Artificial Sequence
444 <220> FEATURE:
445 <223> OTHER INFORMATION: Probe
447 <400> SEQUENCE: 9
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<210> SEQ ID NO 24
<211> LENGTH: 19
<212> TYPE: DNA
<213> ORGANISM Artificial Sequence
<220> FEATURE:

<223> OTHER INFORMATION: :

<400> SEQUENCE: 24

tgcaccacca actgcttag

St 22137 Response is
Artificial, Pls
Explain the Source of
genetic material.
See pg-7 for
Error Explanation

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RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/10/642,272B

DATE: 02/13/2007 TIME: 10:09:50

Input Set : F:\Sequence Listing (Substitute) (58777.12).txt

Output Set: N:\CRF4\02132007\J642272B.raw

(NEW RULES).

Use of <220> Feature (NEW RULES):

Sequence(s) are missing the <220> Feature and associated headings.
Use of <220> to <223> is MANDATORY if <213> ORGANISM is "Artificial Sequence" or "Unknown". Please explain source of genetic material in <220> to <223> section (See "Federal Register," 6/01/98, Vol. 63, No. 104,pp.29631-32) (Sec.1.823 of new Rules)

Seq#:24

8

VERIFICATION SUMMARYPATENT APPLICATION: US/10/642,272B

DATE: 02/13/2007

TIME: 10:09:50

Input Set : F:\Sequence Listing (Substitute) (58777.12).txt

Output Set: N:\CRF4\02132007\J642272B.raw

L:622 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:24 L:624 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ#:24, <213> ORGANISM:Artificial Sequence

L:624 M:258 W: Mandatory Feature missing, <223> Tag not found for SEQ#:24, <213>

ORGANISM: Artificial Sequence

L:624 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:24, Line#:624